

WHAT IS CLAIMED IS:

1. A continuous variable suction system comprising:

the suction housing formed at one side of said suction housing with an inlet for introducing intake air and formed at a peripheral surface of said suction housing with

5 an outlet communicating with the combustion chamber of an engine;

an inner rotor shaped of a hollow cylinder and rotatably provided in said suction housing and formed at a peripheral surface of said rotor with an outlet for discharging air;

10 an outer rotor positioned in the suction housing for circumferentially forming an air passage between said inner rotor and said suction housing, and formed at a peripheral surface of said rotor with an outlet for discharging air;

baffles respectively formed inside said suction housing and said outer rotor to circumferentially form helical suction passages;

15 an inner rotor guide and an outer rotor guide respectively protruding into said outer rotor and said suction housing at said inner rotor and said outer rotor to thereby block a circumferential oil passage between said baffles; and

a rotational force transferring means connected from said inner rotor to said outer rotor to transfer rotational force.

20 2. The system as defined in claim 1, wherein the outlet of said suction housing is connected to a fixed runner to provide suction air to the combustion chamber of an engine.

3. The system as defined in claim 1, wherein said outer rotor and said suction housing are respectively disposed with stoppers for restricting the rotational scope of said inner rotor and said outer rotor.

5 4. The system as defined in claim 1, wherein said inner rotor is opened to an inlet direction of said suction housing.

5. The system as defined in claim 1, wherein said inner rotor is connected to a shaft of a motor inserted into an interior of said suction housing for
10 rotation.

6. The system as defined in claim 1, wherein said rotational force transferring means is a resilient member connected from a shaft for rotating said inner rotor to said outer rotor.